

NWS Form E-5

(04-2006)

(PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

San Juan, Puerto Rico

## MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:

MONTH

YEAR

October

2012

TO: Hydrologic Information Center, W/OS31  
NOAA's National Weather Service  
1325 East West Highway  
Silver Spring, MD 20910-3283

SIGNATURE

Althea Austin-Smith,  
Service Hydrologist

DATE

11/06/2012

*When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).*

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An X inside this box indicates that no flooding occurred within this hydrologic service area.

Summary: The San Juan ASOS reported 4.67 inches of rain for the month of October; 0.92 inches less than the normal of 5.59 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 4.62 inches for the month of October; 0.80 inches less than the normal of 5.42 inches.

*"Afternoon convection was the rule during the first part of October as a result of daytime heating and sea breeze convergence. The steering flow focused the shower activity along the western interior and western portion of Puerto Rico each afternoon. By the end of the month, a broad area of low pressure across the western Caribbean became Hurricane Sandy, and affected Cuba and Hispaniola as moved northward. Hurricane Sandy created an unusual wind field across the forecast area and brought deep tropical moisture from the southwest as well as above normal temperatures along the north coast of Puerto Rico. Showers and thunderstorms associated with the outer bands were strong enough to produce moderate to major flooding across the Guayanilla and Caguas area between October 25th and October 27th."*

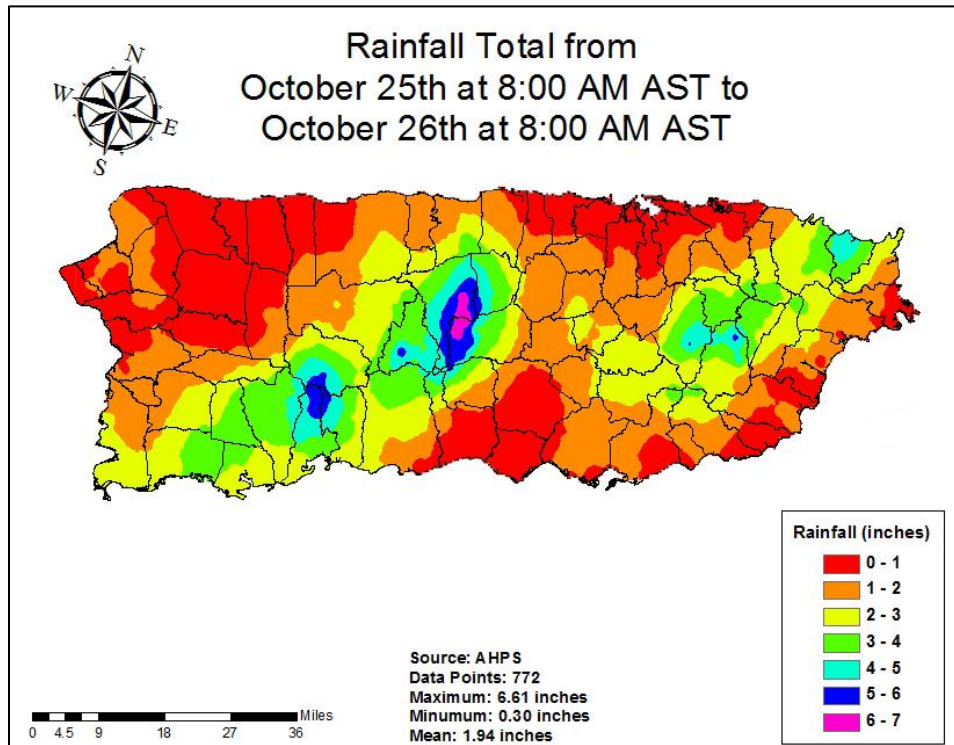
*"Please see (<http://www.srh.noaa.gov/sju/?n=oct2012cr>) for October's Climate Report.*

As one can see from [October's Flood Stage Report](#), the bulk of the hydrologic activity was in response the rainfall generated by the outer bands of Sandy as she pulled north of the region at the end of October. Moderate and major flash flooding was reported as high intensity rainfall butted up against the Cordillera Central Mountains of Puerto Rico.

Specifically, moderate flooding was reported on the Rio de La Plata, Rio Grande de Manati, and Rio Caonillas. Major flooding was experienced in southwestern Puerto Rico especially in communities along the Rio Guayanilla and Rio Yauco where approximately 73 people had to be evacuated from their homes because of rising water. While these communities experienced devastating impacts, significant rises and flooding was also reported in many other municipalities around Puerto Rico including the municipalities along the Rio Grande de Anasco, Rio Grande de Arecibo, the upper Rio Grande de Loiza and Rio Espiritu Santo and Rio Fajardo in the northeast. No significant flooding was reported in the U.S. Virgin Islands during the month of October.

There was one flood associated death during the month of October. This case was unique because it was not the initial flow of the river itself but of the increased flow due to the opening of flood gates. On October 26, a ... "51 year man was reported dead at the mouth of the Rio Jacaguas in Juana Diaz...after a "rush" of water occurred".

Here is a map of the rainfall that resulted in flooding associated with the outer bands of Sandy:



See details of all flood reports in the LSR reports below:

## Local Storm Reports for October 2012

..TIME ..DATE	EVENT MAG	CITY LOCATION COUNTY LOCATION	ST	LAT LON SOURCE
0650 PM 10/17/2012	FLASH FLOOD	DORADO DORADO	PR	18.47N 66.27W EMERGENCY MNGR
BARRIO HIGUILAR WAS REPORTED FLOODED.				
0745 PM 10/17/2012	FLASH FLOOD	TOA ALTA TOA ALTA	PR	18.39N 66.25W EMERGENCY MNGR
SEVERAL HOUSES WERE REPORTED FLOODED AT TOA ALTA HIGH.				

0608 PM 10/17/2012	FLOOD	MANATI MANATI	18.43N 66.48W PR PUBLIC
ROAD 2 BETWEEN MANATI AND VEGA BAJA IN FRONT OF PADILLAS PIZZERIA WAS FLOODED.			
0600 AM 10/26/2012	FLASH FLOOD	GUAYANILLA GUAYANILLA	18.02N 66.79W PR PUBLIC
RIO GUAYANILLA REPORTED OUT OF ITS BANKS.			
0620 AM 10/26/2012	FLASH FLOOD	YAUCO YAUCO	18.04N 66.86W PR PUBLIC
RIO YAUCO OUT OF ITS BANKS. AROUND 73 PEOPLE WERE EVACUATED DUE TO WATERS INSIDE THEIR HOMES.			
0659 AM 10/26/2012	FLOOD	RIO GRANDE RIO GRANDE	18.38N 65.84W PR PUBLIC
FLOODING OF ROAD PR-3 NEAR INTECEPTION WITH ROAD PR-955.			
0830 AM 10/26/2012	FLOOD	GUAYANILLA GUAYANILLA	18.02N 66.79W PR PUBLIC
RIO GUAYANILLA REPORTED TO BE STILL OUT OF ITS BANKS.			
0930 AM 10/26/2012	FLASH FLOOD	JUANA DIAZ JUANA DIAZ	18.05N 66.51W PR EMERGENCY MNGR
*** 1 FATAL *** A 51-YEAR OLD MAN WAS FOUND DEAD AROUND 1700L AT THE RIO JACAGUAS RIVER MOUTH IN JUANA DIAZ. HE WAS REPORTED MISSING AROUND 0930L AFTER A RUSH OF WATER OCCURED WHERE HE USED TO CROSS THE RIVER TO FISH.			
0610 PM 10/26/2012	FLOOD	CAGUAS CAGUAS	18.23N 66.04W PR PUBLIC
ROADS PR-765 AND PR-763 FLOODED IN BO MACANEA AND ANOTHER SECTION IMPASSABLE DUE TO LANDSLIDE. SECTION OF ROAD PR-765 BELOW HIGHWAY 52 FLOODED AS WELL.			
0740 PM 10/26/2012	FLOOD	CIALES CIALES	18.34N 66.47W PR PUBLIC
RIO TORO NEGRO NEAR BO POZAS OUT OF ITS BANKS OVER ROAD PR-615.			

The approximate amounts of Hydrologic Products issued during the month of October are as follows:

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	10
Flood Warnings (SJUFLWSJU)	9
Flash Flood Warnings (SJUFFWSJU)	8
Flash Flood Statements (SJUFFSSJU)	7
Urban/Small Stream Flood Advisories (SJUFLSSJU)	109

For monthly “radar totals” use the archive of the Advanced Hydrologic Prediction Service (AHPS) - click on the Precipitation interface for San Juan, Puerto Rico and request the duration you would like to view...daily or monthly remembering that the 24 hour totals are from 12z – 12z (8am to 8am in PR) - [AHPS archive of radar totals/ images](#) . Here are the [October 2012 totals](#).